

- Structures that are suited to their functions
- Classified into four main categories: epithelial, connective, muscle, and nervous
- Organs: functional unit; combinations of various tissues
 - Make up organ systems

Epithelial tissue

- Covers the outside of the body
- Lines organs and cavities within the body
- Possesses cells that are closely joined
 - Via tight junctions & often function as barrier
- Cells (at base) attached to basement membrane
 - Dense "mat" of extracellular matrix (ECM)
- Glandular epithelia: absorbs/secretes chemical solutions
 - Mucous membranes: secretes mucus

Connective tissue

- Primarily functions: bind and support other tissues
- Consists of sparsely packed cells scattered throughout an extracellular matrix (ECM)
 - ECM secreted by connective tissue cells
 - ECM a web of fibers
- connective tissue: types

- Loose connective tissue; adipose tissue; fibrous connective tissue; cartilage; bone; blood

⇒ Connective tissue: loose connective tissue

- Binds epithelia to underlying tissues
 - "Packing material" & holds organs in place
- Two cell types predominant
 - 1. Fibroblasts: secrete ECM
 - 2. Macrophages: phagocytize bacteria, cell debris

⇒ connective tissue: adipose tissue

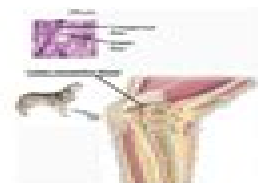
- Specialized loose CT: stores fat in adipose cells
 - Insulates & stores fuel
- Adipose cell: contains fat droplet

⇒ connective tissue: fibrous connective tissue

- Dense (large number of collagenous fibers)
- Fibers organized in parallel bundles
 - Maximizes nonelastic strength
- Found in tendons (attach muscle to bone) & ligaments (join bone to bone, joint)

⇒ Connective tissue: cartilage

- Collagenous fibers embedded in chondroitin sulfate matrix
 - Yields strength / flexibility



Chapter 40 Basic Principles Of Animal Form Function

Answer Key

**Jane B. Reece, Noel Meyers, Lisa A.
Urry, Michael L. Cain, Steven A.
Wasserman, Peter V. Minorsky**

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